

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization

International Bureau



(43) International publication date

16 June 2005 (16.06.2005)

PCT

(10) International publication number

WO 2005/053445 A3

(51) International patent classification⁷:

A62D 5/00, A63B 17/00

A41B 11/00,

(72) Inventors; and

(75) Inventors/Applicants (US only): HEXELS, Gerd [DE/DE]; Reinersstrasse 3, 43114 Nettetal (DE).

(21) International application number: PCT/EP2004/013577

(22) International filing date: 30 November 2004 (30.11.2004)

(74) Attorney: LORENZ, Werner; Alte Ulmer Strasse 2, 89522 Heidenheim (DE).

(25) Language of filing:

German

(26) Language of publication:

German

(30) Data relating to the priority:

103 57 112.4

6 December 2003 (06.12.2003)

DE

(71) Applicant (for all designated States except US):

TEXPLORER GMBH [DE/DE]; Van-der-Upwich-Strasse 37, 41334 Nettetal (DE)

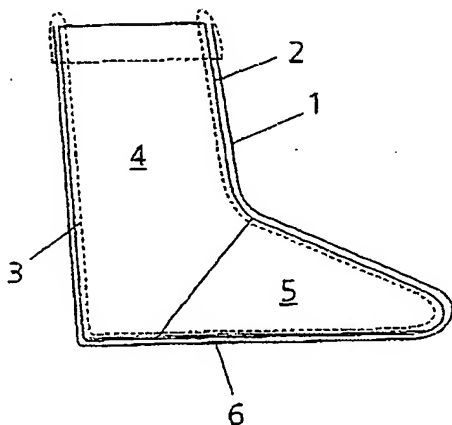
(81) Designated states (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

[continued on next page]

As printed

(54) Title: PROTECTIVE CLOTHING FOR THE LOWER PART OF THE LEG

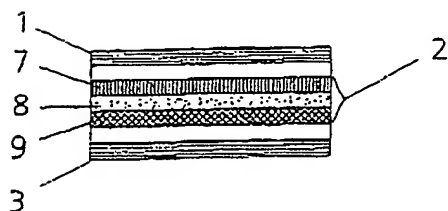
(54) Bezeichnung: UNTERBEINSCHUTZBEKLEIDUNG



(57) Abstract: Protective clothing for the lower part of the leg, particularly a protective sock, protecting against chemical and/or biological harmful substances, consisting of several layers. The outer leg part (1) is joined to a laminate (2) which is arranged inside the outer leg part and which comprises a flexible, wind-tight, water-repellent membrane (7) on the outer leg side, in addition to a carbon layer (8) which is arranged underneath the membrane (7) and an inner textile layer of material (9). An inner leg part (3) can also be arranged underneath the laminate as an additional layer.

(57) Zusammenfassung: Eine Unterbeinschutzbekleidung, insbesondere ein Schutzsocken, gegen chemische und/oder biologische Schadstoffe weist mehrere Lagen auf. Ein Außenbeinteil (1) ist mit einem im Inneren des Außenbeinteiles angeordneten Laminat (2), das eine außenseitig flexible winddichte und wasserabweisende Membran (7), ein unter der Membran (7) angeordnete Kohlenstoffschicht (8) und eine innere textile Stofflage (9) aufweist, verbunden. Zusätzlich kann als weitere Lage unter dem Laminat ein Innenbeinteil (3) angeordnet sein.

WO 2005/053445 A3



(84) Designated states (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Declarations under Rule 4.17

- As to the identity of the inventor (Rule 4.17(i)) for all designations.
- As to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii)) for the following designations AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW, ARIPO patent (BW, GH, GM,

KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

- As to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii)) for all designations
- Of inventorship (Rule 4.17(iv)) for the following designation US.

Published:

- With International Search Report.
- Before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments.

(88) Date of publication of the International Search Report:
4 August 2005

For an explanation of the two-letter codes and the other abbreviations, reference is made to the explanations ("Guidance Notes on Codes and Abbreviations") at the beginning of each regular edition of the PCT Gazette.